إصدار
من سلسلة كتب المعاصر
لطلاب المدارس الرسمية والخاصة لغات
غير مخصصة للبيع

EL-MOASSER
Guide

Final Revision

Quick Look

تكنولوچيا المعلومات والاتصالات

ICT

INFORMATION
& COMMUNICATION
TECHNOLOGY

5th Primary
2026
FIRST TERM

الصف الخامس الابتدائى
الفصل الدراسى الأول
طبقاً لأحدث مواصفات الورقة الامتحانية ٢٠٢٥ – ٢٠٢٦

GPS

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Important Definitions

Word	Definition
Gateway	- It is a gateway to connect your computer to the internet. - It is a tool to connect the internet such as a router.
Internet Service Provider (ISP)	- It is the internet service provided by Egyptian companies to citizens.
Router	It connects your computer to an ISP.
The World Wide Web (WWW)	It's part of the internet networks made up of web pages that people can navigate.
The Egyptian Knowledge Bank (EKB)	It's on the (WWW) and it is available for free to all Egyptians who register on the site.
Intranet	Unlike the internet. It's private, restricted to only those that are part to the business, school, or organization that it is connecting.
Cable	A long connect or that transmits data or power between devices, such as ethernet cable.
Internet of things (IOT)	House hold items can be part of a network, too.
Bluetooth	Bluetooth is a networking technology that connects wireless mobile devices over a short range to form a network to transmit data between different devices.
Hackers	Hackers break into a computer system and steal personal information by using the internet.
Personal information	Personal information is called personally Identifiable information (PII) is like : name , address, date of birth , password.
Back up	Back up means make another copy of your work to keep it safe.
Updates	The updates include changes that keep your data safe.
Phishing	Phishing is sending a message via e-mail or social media applications that looks real, but isn't.
Multi-Factor Identification (MFA)	MFA means you provide at least two ways of identifying yourself.
Creative commons	Sometimes the owner of a creative work gives permission to reuse his work at anytime and any place, so we can use it freely.

Creative commons reuse licenses	It means the creator has given permission for their work to be used anytime anywhere.
Public Domain	It includes all creative works not covered by copyright law.
Uniform Resource Locator (URL)	You can going to the site your want by typing the URL.
Online sources	Sources other than text in online articles and encyclopedias may include important information.
Paraphrasing	When you paraphrase, use your own words to explain the ideas of the writer.
Permalink	A highlighted word or a picture you click on to take you to another web location.

ICT tools

Potential computer problems and solutions

مشكلات الكمبيوتر المحتملة وحلولها

Problem	Potential reasons	Solution
1. Trouble processing large files, like a big PowerPoint presentation	Not enough graphics storage	Shut down some programs
2. Not able to store files	Not enough space	Move old files to an external drive
3. A poor video-conference connection	Slow wireless internet connection	Try an ethernet connection
4. Home internet connection not working	Connection interrupted	Use ethernet or contact ISP

The main computer hardware components :

External Hard Drive :

- Like an HDD (Hard Disk Drive) but much faster

Ethernet cable :

- A cable that connects a computer or laptop to a router

Flash Memory :

- It is used to transfer or restore files and data between computer devices

Ethernet port :

- Connects an ethernet cable; ethernet is more stable and faster than Wi-Fi

HDMI (high-definition multimedia interface) :

- A cable that transmits audio and video from/to devices

Router :

- A device that connects a computer to the internet via Wi-Fi or ethernet

Units of measurements

bit	the smallest unit of data
0	1 byte = 8 bits = 1 character; the word "cat" has three letters and would need three bytes.
Kilobytes	1,024 (B)
Megabyte (Mb)	1,024 (KB)
Gigabyte (Gb)	1,024 (MB)
Terabyte	1,024 (GB)
Mbps	Megabits per second; measures the speed of a network or internet connection (the faster the speed, the better)
Hertz (GHz)	measures the number of cycles your CPU carries out per second; (the higher the number, the faster the speed,the better).

Types of computer Networks

1 Local Area Network (LAN)

- When a computer connected to another computer or device such as a printer or router then you have your own personal local area network.

a printer

router

- It could be at home, at school or in a hospital.

2 Internet

- It is a network that connects computers, and the people using them, from all around the world.

Types of Networks divided into

Network	Description	Examples
Open network	- It is opened. - It is accessible to all.	The Internet.
Closed network	- It may only have computers linked by cables to allow for file sharing.	School's computer lab.

Comparison between intranet and internet networks

intranet

- private
- closed computer network
- restricted

share information

internet

- accessible to all
- open computer network

▶ **Ways that people can use networks to communicate :**

send a text

buy something

take an online class

download or upload a video

use an app or program

▶ **There are devices that can be turned on / off using specific apps:**

Bluetooth speakers

Digital washing machine

Digital refrigerator

Home appliances

- **Helping people who are visually impaired through.**

Screen reader and Braille

to

- do schoolwork online.
- read braille.
- accessing documents.

E-commerce

to

- shop and sell online.
- It makes life so much easier for everyone.

Digit Privacy

to

- be safe about giving information online.

▸ Common computer problems and possible solutions :

Problem	Possible solutions
1. Computer slows down when opening an app	▸ Shut down and restart it. ▸ Check for software updates. ▸ Delete unwanted apps.
2. Browser running slow	▸ Check Wi-Fi signal. ▸ Make sure to update the apps on your device.
3. No internet connection No internet Try: Checking the network cables, mo Reconnecting to Wi-Fi Running Windows Network Diag ERR_INTERNET_DISCONNECTED	▸ Use the software to troubleshoot your Wi-Fi connection. ▸ Check that the router is connected. ▸ Restart your router. ▸ Try a new ethernet cable. ▸ Contact the customer service of your ISP for help.
4. Slow to download	▸ Restart your computer and router. ▸ Check the internet speed.

QUICK LOOK

How we can find information

QR code

School Library

The internet

TV programs

How save and store information ?

Scanner ▶ We use the images scanner and save images for later use.

Digital camera ▶ We can take photos and videos and store them.

Flash memory ▶ We store and share information.

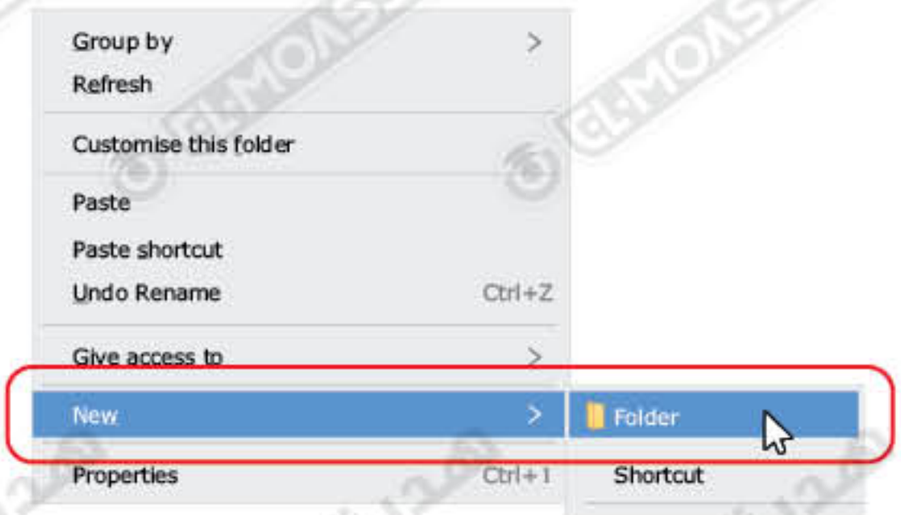
How to organize using ICT tools

1 Create the main folder

First ▶ right click

Second ▶ click (New)

Third ▶ click (Folder)



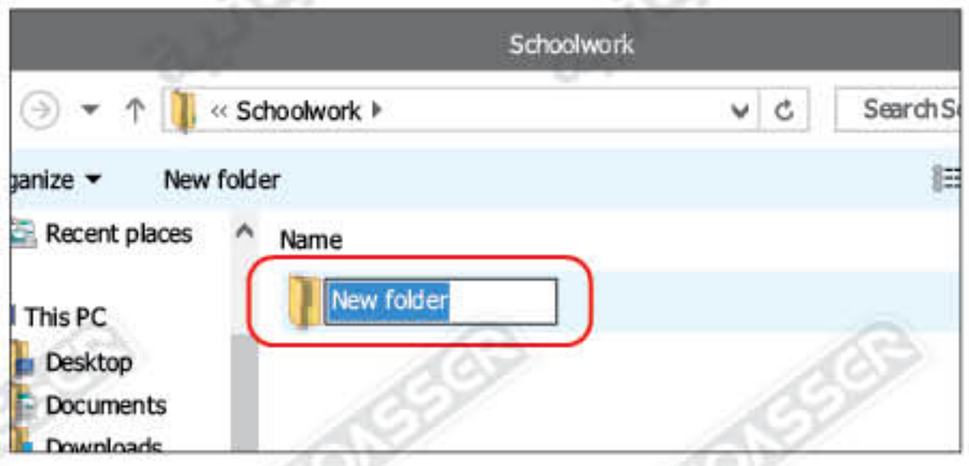
2 Add sub-folders

We can add sub-folders inside the main folder.

First ▶ Open the main folder

Second ▶ Right click

Third ▶ Select New folder

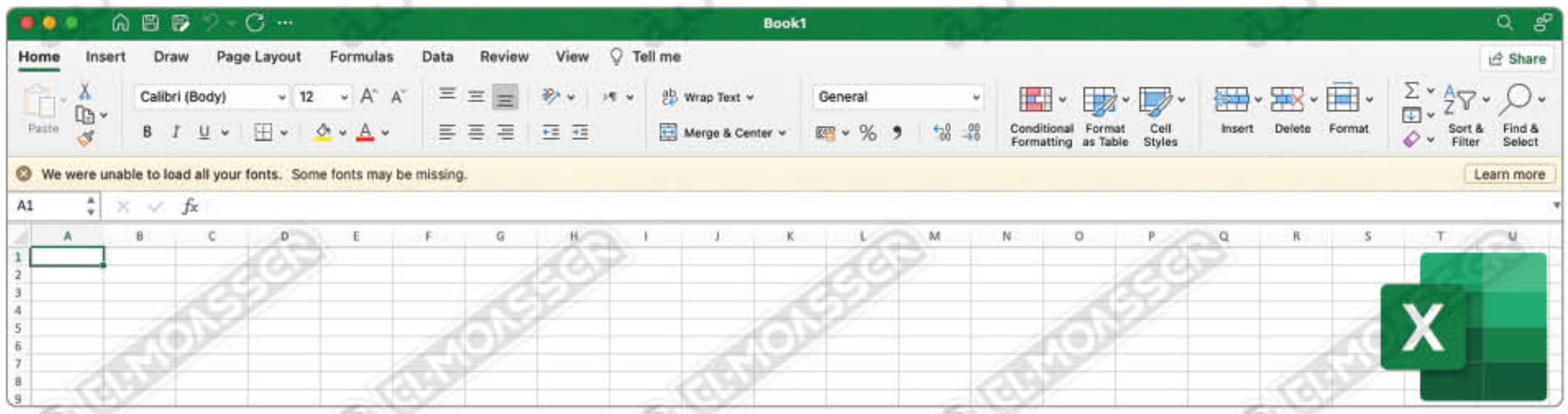


Compare between intranet network and internet :

Intranet	Internet
- An intranet is used to share in a closed network.	- The internet is used to share over the web.
- It is more secure.	- It's less secure.

Use Microsoft Excel :

- **Sorting info in alphabetical order**
- Go to the toolbar.
- Click on Data.
- Then click on Sort.



- **You can set formulas in cells to add(+), subtract(–), multiply (x), or divide (/) :**
- **Click on the cell you want to set a formula.**
  - Type «=». This tells Excel you are creating a formula.

QUICK LOOK

Ways of identifying phishing messages

Phishing messages include

- misspelled words, and grammar errors.
- requests for too much personal data.

Password manager

- creates a strong, unique password for each of your accounts.
- tells you if the passwords you already have are too weak or if you've reused them.
- tells you if one of your passwords has been stolen online.

URL (Uniform Resource Locator)

1. Protocol
2. Resource name
3. File Path

https://www.ekb.com/index.html

Protocol — Resource name — File Path

Know what a fact and an opinion is

Facts

- Come from research and observation.
- They are statements that can be proven.
- They cannot be debated and are true for everyone.

Opinions

- They are based on someone's views and experiences.
- They cannot be proven.
- They can be debated and are not true for everyone.

It's OK if two reliable websites include the same information.

- It often means that the facts are true.
- Write notes for the first source.
- Scan the next source for additional facts to add to your notes.

If two online sources have different information

- Double-check that both sites are reliable.
- Make sure the information is based on fact instead of opinion.

▶ **Paraphrasing mean to :**

Change

- some of the vocabulary words.
- the order of the ideas.
- the sentence structure.

- By paraphrasing you are showing respect for the author's work.

Citing sources

RESULT

- At the end of a research report, you list your sources on a Works Cited page.

WHY

- Because websites change, some online sources include a permalink to use as the cited web address.

For a YouTube video

▶ Use the uploader as the author, the date, the video title followed by the word "video", the site name, and the URL.

▶ For Example RTV, 2019. Very Nile video. YouTube, https://www.youtube.com/watch?v=yH5SVIgN_gY

Sample Test 1

1 Put (✓) in front of the correct sentence and (✗) in front of the wrong one.

1. You must share the bank account details online. ( )
2. You should avoid scam websites. ( )
3. A knowledge bank from reliable sources containing multiple research materials. ( )
4. The international symbol for copyright is ©. ( )
5. Flash memory connects the computer to the internet. ( )
6. All websites have credibility. ( )
7. The Egyptian Knowledge Bank is dealt with free of charge for Egyptians. ( )
8. Bit is the smallest unit of measurement for storing data on storage units. ( )

2 Choose the correct answer from a, b, c or d.

1. To store and share information, use the ..... .
   a. scanner b. printer c. flash memory d. router
2. ..... is the smallest unit of data storage on your computer.
   a. Mpbs b. Hz c. Byte d. Bit
3. ..... is a private and restricted to only those that are part of the business, school that is connecting.
   a. Internet b. Intranet c. LAN d. WAN
4. The ..... consists of devices linked to the internet via wi-fi.
   a. CPU b. IOT c. DSL d. HDM
5. To protect your photos that are shared with ..... .
   a. low resolution b. high resolution c. flash memory d. router
6. The internet is a computer network ..... .
   a. closed b. open c. location limited d. scanner
7. ..... are based on someone's views and experiences.
   a. Opinions b. Fact c. Lies d. None of them

Sample Test 2

1 Choose the correct answer from a, b, c or d.

1. The cell in the Excel program can contain text or ..... .

a. numbers b. equations c. all of them d. none of them

2. Steps to solve the problem ..... .

a. search by mail b. copy the problem

c. defining the problem d. none of them

3. ..... is chosen from the shortcut menu to create a new folder.

a. Paste b. New c. Copy d. Scan

4. ..... connect computers together to share important information.

a. Computer accessories b. Computer networks

c. Zoom d. Bluetooth

5. School's computer lab is an example for ..... .

a. closed network b. open network c. WAN d. LAN

6. You can use ..... applications to buy anything on the internet.

a. browser b. Braille c. e-commerce d. EKB

7. ..... is used to restore or to transfer files and data between computers.

a. HDMI b. CPU c. Flash memory d. Software

8. ..... use the internet to break into your computer to steal your information.

a. Programmers b. Hackers c. Thieves d. Virus

2 Put (✓) in front of the correct sentence and (×) in front of the wrong one.

1. Bit is considered the smallest Unit of data. ( )
2. Bluetooth is a networking technology that connect devices over a long rang. ( )
3. From Possible Reason for Slow Downloads is Slow Internet Speed. ( )
4. Data should be backed up. ( )
5. One type of phishing is receiving a message telling you that you won a prize. ( )
6. Taking notes when writing a research paper is important. ( )
7. The Egyptian Knowledge Bank is available for free to Egyptians. ( )

Sample Test 3

1 Put (✓) in front of the correct sentence and (✗) in front of the wrong one.

1. Password management software used to create strong passwords. ( )
2. Copyright law protects both print and digital content. ( )
3. Reliable source of information is well written with virtually no errors. ( )
4. A bit is the smallest unit of measurement for storing data on storage units. ( )
5. It is not recommended to use antivirus software on your devices. ( )
6. Do not share your information with classmates. ( )
7. Facts based on a person's views and experiences. ( )

2 Choose the correct answer from a, b, c or d.

1. A program which is used to write reports ..... .

   a. Paint b. Excel c. Word d. PowerPoint

2. The Abbreviation Code for The Term World Wide Web is ..... .

   a. WWW b. WOR c. WEB d. QR

3. A command which is used to rename the folder is ..... .

   a. new b. rename c. name d. copy

4. Braille helps people of determination in ..... .

   a. facilitate reading b. movement speed

   c. good listening d. none of them

5. ..... program is used to present research results in an interesting way.

   a. Word processor b. PowerPoint

   c. Arithmetic tables d. Excel

6. ..... is part of the internet.

   a. The World Wide Web b. Accessories devices

   c. Local network d. LAN

7. ..... is example of the Internet of Things.

   a. Bluetooth speakers b. Gateway

   c. E-mail d. Google

8. In the event that the home internet does not work, you need ..... .

   a. delete some applications b. transfer old files

   c. contact customer service d. none of them

Sample Test 4

1 Put (✓) in front of the correct sentence and (✗) in front of the wrong one.

1. The internet is a type of network. ( )
2. The word processor program is used to display the results of the research in an interesting way. ( )
3. Hackers can send malware. ( )
4. Kilobyte is a unit of measurement equal to 100 bytes. ( )
5. Printer can be used to insert images and save it for later use. ( )
6. Your name, address and date of birth are personal data. ( )
7. The Egyptian Knowledge Bank is one of the reliable sources of information. ( )
8. Hard disk space is smaller than flash memory. ( )

2 Choose the correct answer from a, b, c or d.

1. You can use ..... Program to prepare presentations.

   a. PowerPoint b. Word c. Excel d. Google

2. Make sure that the router is connected, and restart the router are possible solutions to the problem ..... .

   a. slow computer b. slow search engine

   c. disconnection of the internet d. none of them

3. ..... can be considered as a simple container for storing information that can be accessed by scanning with the phone's camera.

   a. Flash memory b. QR code c. Scanner d. Printer

4. To create a main folder you must choose the command ..... from the shortcut menu including choosing (Folder).

   a. Refresh b. New c. View d. Copy

5. When looking for information the first step is always ..... .

   a. division of topics b. selection of research topic

   c. sharing results d. all of them

6. ..... tries to get credit bank in steal his money.

   a. Teacher b.Hacker c. Family d. None of them

7. You can recognize electronic websites through ..... .

   a. personal b. URL c. files d. scanner

Sample Test 5

1 Put (✓) in front of the correct sentence and (✗) in front of the wrong one :

1. Checking the Wi-Fi signal is one of the solution to the browser running slow problem. ( )
2. The internet is more secure and private than the intranet. ( )
3. It is preferred to sign up to websites that ask for too much personal information. ( )
4. Multi-factor Authentication provides one way to identify yourself. ( )
5. Ethernet cable connects computer to router. ( )
6. Scareware websites include fake warning about a problem in your computer. ( )
7. When you paraphrase you use your own words to explain the ideas of the writer. ( )

2 Choose the correct answer from a, b, c or d :

1. ..... private network restricted to only those who are part of the business or organization.

   a. Internet b. Intranet c. LAN d. WWW

2. ..... programs help visually impaired people to write their researches on computer.

   a. Printer b. Scanner c. Screen Readers d. Microphone

3. ..... helps us access information by scanning it with a phone camera.

   a. QR code b. Printer c. Router d. Gateway

4. To create a formula in Excel, type the ..... Sign in the cell.

   a. + b. / c. * d. =

5. ..... is one of the accessories that you can use to back up your files.

   a. External hard disk b. Flash Memory
   c. Anti-Virus d. Both (A) and (B)

6. Creative work that is not covered by copyright is ..... .

   a. websites b. public domain c. images d. movies

7. ..... can't be debated and true for everyone.

   a. Opinions b. Lies c. Facts d. None of them

8. Network or internet speed is measured in ..... .

   a. GHz b. GByte c. Bit d. Mbps

Sample Test 6

1 Choose the correct answer from a, b, c or d :

1. A kilobyte equals ..... Byte.
   a. 2024 b. 1000 c. 1024 d. 2424
2. To access the site, the ..... is written in the search engine.
   a. URL b. bookmarks c. file d. Images
3. It results ..... from research and observation and can be proven.
   a. Opinions b. facts c. numbers d. problems
4. To create a new folder, use the command ..... .
   a. Copy b. Undo c. New d. Delete
5. When you ..... you must write your research paper in your own words.
   a. take notes b. open good source
   c. search online d. open hyperlinks
6. You must use ..... passwords for the websites that you use.
   a. short b. different c. expected d. similar
7. .....is a program to create formula and graph.
   a. Word b. Paint c. What's App d. Excel
8. One of the solutions to the problem of inability to store files ..... .
   a. run programs b. transfer old files to an external drive
   c. open a new program d. none of them
9. ..... it is a free Egyptian website that contains a lot of interesting information.
   a. Internet b. Egyptian Knowledge Bank
   c. Local Network d. YouTube
10. ..... a network technology that connects wireless devices over a short range.
    a. Scanner b. Screen c. Internet d. Bluetooth

2 Put (✓) in front of the correct sentence and (✗) in front of the wrong one :

1. It is possible to connect to the Internet without an Ethernet cable. ( )
2. Government websites are examples of fraudulent websites. ( )
3. The international symbol for copyright is ®. ( )
4. The World Wide Web is part of the Internet. ( )
5. You should not visit a website requests a lot of personal information. ( )
6. Phishing is sending a message via e-mail for stealing your password. ( )
7. Using multiple sources during your research is a good decision. ( )
8. If the Internet is not working, you can contact Customer service. ( )
9. The router is used to connect the computer to the Internet. ( )
10. Information cannot be arranged alphabetically in Excel. ( )

Sample Test 7

1 Put (✓) in front of the correct sentence and (✗) in front of the wrong one :

1. Bluetooth connects mobile with devices over short range. ( )
2. Bit : the smallest unit of data. ( )
3. Folder in computer device can contain pens and printed image. ( )
4. Intranet is used to share in a closed network and is more secure. ( )
5. Identify the problem is the last step in solving computer problems. ( )
6. To create a formula in Excel, we use the "#" sign. ( )
7. Password managers create a strong and unique password. ( )
8. The copyright law does not protect image and music. ( )
9. The World Wide Web (WWW) is part of the internet network. ( )
10. You can ask your teacher for help will browsing a site for the first time. ( )

2 Choose the correct answer from a, b, c or d :

1. ..... is a device that connects computer device to an ISP.
   a. Bluetooth b. Gateway (Router)
   c. Mouse d. CPU
2. One of the peripharal devices used to save files securely is .....
   a. keyboard b. mouse
   c. External hard drive d. screen
3. Slow downloads may be caused to low ..... speed.
   a. monitor b. internet c. memory d. keyboard
4. Hackers can get your password by a ..... way.
   a. updating b. uploading c. chatting d. phishing
5. It's a good decision to use ..... sources in your research.
   a. multiple b. one c. fake d. unreliable

3 Complete the missing parts using the words between the brackets :

(flash memory – strong password – "+" – misspelling – check Wi-Fi signal – mouse)

1. Password manager is used to create ..... .
2. To avoid scam web sites, check for ..... or bad grammar.
3. The ..... is used to store data and information.
4. When the browser is running slow, you have to ..... .
5. To perform add in Excel, use the ..... Sign.

Sample Test 8

1 Put (✓) in front of the correct sentence and (×) in front of the wrong one :

1. All apps and software programs can back up data automatically. ( )
2. Paraphrasing means you can change some of the vocabulary words, the order of ideas. ( )
3. The internet of things is the connection of home appliances to the internet. ( )
4. When doing a search, make sure the information is based on Opinions instead of Facts. ( )
5. Don't sign up for a website if it asks for too much personal information. ( )
6. Use anti-virus software on all your devices and update your devices regularly to protect your files. ( )
7. Password can't also be strengthened through (Multi-Factor Identification) MFA. ( )

2 Choose the correct answer from a, b, c or d :

1. If you want to calculate the sum of values in cells A^1, A^2 and A^3 we write the formula.
   a. = A1 + 2 + 3 b. = AAA+123 c. = A1+A2+A3 d. A1+A2+A3=
2. ..... helps us to access the information by capture it.
   a. Quick code b. QRR c. RQ d. QR code
3. ..... is a network which restricted to only those that part of business.
   a. Internet b. Intranet c. Open network d. LAN
4. ..... is used to restore or transfer files and data between computers.
   a. HDMI b. CPU c. Flash memory d. Router
5. A hacker can send a virus to all the addresses in your email if they get acess to your .....
   a. friends' addresses b. bank account number
   c. favorite color d. birth date
6. Make sure that the router is connected, and restart the router are possible solutions to the problem .....
   a. computer slow b. browser running slow
   c. no internet connection d. slow download
7. You want to access the Egyptian knowledge Bank, you look the URL and it says http://www.ekkkb.com What is wrong with the URL .....
   a. Protocol b. Resource name c. File Path d. None of them
8. To avoid scam websites we should check .....
   a. URL b. GPS c. IOT d. EKB

Sample Test 9

1 Put (✓) in front of the correct sentence and (✗) in front of the wrong one :

1. Identifying the problem is the first step in the steps of discovering and solving problems. ( )
2. The scanner is used to enter images into the computer. ( )
3. Flash memory is one of the ways to save information. ( )
4. Use weak passwords to keep your personal identification information safe. ( )
5. You can use a flash memory to back up and save your files. ( )
6. You can use an external hard drive to back up and save your files. ( )
7. Phishing is one of the ways hackers get your password. ( )
8. A trusted website has spelling errors. ( )
9. Copyright law protects both printed and digital content. ( )
10. Website copyrights usually appear at the bottom of the home page. ( )

2 Choose the correct answer from a, b, c or d :

1. Device ..... connects the computer to the Internet.
   a. Router b. Flash memory c. Microphone d. GHZ
2. The network of ..... connects computers and their users around the world.
   a. Local b. Internet
   c. Closes d. Digital fingerprint
3. ..... gives people with disabilities more independence and increases their self-confidence.
   a. Printers b. Router
   c. Computer networks d. Camera
4. Sharing information over the intranet is considered .....
   a. less secure b. more secure c. less reliable d. less accurate
5. To multiply the values in cells A8,B8, we use the formula .....
   a. A4+B4 b. A4/B4 c. A8*B8 d. A8-B8+C4
6. The IOT (Internet of things) consists of devices linked to the internet via .....
   a. Wi-Fi b. open network c. bluetooth d. e-mail
7. A URL starts with the .....
   a. resource name b. open network c. protocol d. all of them
8. You can use ..... to input images to your computer.
   a. scanner b. keyboard c. camera d. mouse
9. The copyright for a website is usually ..... of the homepage.
   a. above b. on the top c. in the side d. at the bottom
10. Opinions .....
    a. are not debatable
    b. are based on a person's perspectives and experiences
    c. cannot be verified
    d. are based on research and observations and can be proven

Sample Test 10

1 Put (✓) in front of the correct sentence and (✗) in front of the wrong one :

1. Facts are based on someone's views and experiences. ( )
2. Password Management software is used to create strong passwords. ( )
3. When a computer slows down when opening an app restart router. ( )
4. All URLs are made up of 2 main parts. ( )
5. The main folder contains sub-folders and files. ( )

2 Choose the correct answer from a, b, c or d :

1. ..... is like a HDD, but works much faster.
   a. Flash memory b. External HDD c. Keyboard d. None of them
2. One of the ways that computer hackers use to obtain passwords is called .....
   a. phishing b. online shopping c. open network d. all of them
3. The ..... is used to input images to the computer.
   a. scanner b. monitor c. printer d. mouse
4. ..... is a cable that connects a computer to the router.
   a. Ethernet cable b. Wi-Fi c. USB d. Keyboard
5. Banks use the ..... to share their information.
   a. Open Networks b. Closed Networks c. WWWW d. None of them
6. A network technology that connects wireless devices over a short range is .....
   a. bluetooth b. IOT c. scanner d. all of them
7. To create a main folder, you must choose the command ..... from shortcut menu.
   a. new b. rename c. USB d. none of them
8. When arranging information alphabetically in Excel, go to the ..... .
   a. taskbar b. toolbar c. start menu d. all of them
9. When a cell in an Excel sheet is in the B column and four row, this cell is labeled ..... .
   a. c4 b. B4 c. 4B d. all of them
10. ..... is to give the owner permission to reuse his work freely at anytime and anywhere.
    a. Copyright b. Facts
    c. Creative commons d. None of them